

Columbia University

BULLETIN OF INFORMATION

Forty-fifth Series, No. 40

September 1, 1945

ANNOUNCEMENT OF COURSES FOR TECHNICIANS
IN
PHYSICAL THERAPY

OCCUPATIONAL THERAPY
COLLEGE OF PHYSICIANS AND SURGEONS



FOR THE WINTER AND SPRING SESSIONS

1945-1946

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-fifth Series, No. 40

September 1, 1945

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 20,000—1945.

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INFORMATION

Application blanks and further information about the courses in this bulletin may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 a.m. to 5 p.m.; Saturdays by appointment. Telephone: WAdsworth 3-2500, Extension 475.

WINTER SESSION

September 27, 1945, to February 2, 1946

Registration—September 24 to 26

SPRING SESSION

February 4 to May 25, 1946

Registration—January 31 to February 2

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COLUMBIA—PRESBYTERIAN MEDICAL CENTER

Bard Hall (Student Residence Hall) Psychiatric Institute Neurological Institute Maxwell Hall (Nurses' Home) Medical School, Presbyterian Hospital, etc.* Institute of Ophthalmology

*Including: School of Dental and Oral Surgery, Sloane Hospital for Women, Babies Hospital, Squire Urological Clinic, Vanderbilt Clinic, and Washington Heights Health and Teaching Center

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ROBERT F. MOORE, A.B. *Secretary of Appointments*

GENERAL INFORMATION

This bulletin describes two separate programs of professional study offered by Columbia University: Physical Therapy and Occupational Therapy. These technician training courses are offered at the Columbia-Presbyterian Medical Center under the auspices of the College of Physicians and Surgeons. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association, and prepare the student to meet the qualifications for registration in either Physical or Occupational Therapy.

The information immediately following is concerned with general University regulations which apply to all students. For complete details on each of the two professional programs, refer to their respective sections in this bulletin.

REGISTRATION AND PAYMENT OF FEES

Registration

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated at the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays, and on Saturday from 9 a.m. to 12 m. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1945-1946 are as follows:

Winter Session: September 24 to September 26.

Spring Session: January 31 to February 2.

Approval of Program. Programs for all students in the professional courses in physical and occupational therapy or in the preprofessional collegiate courses leading to the professional curriculum must be approved before registration by the directors of training in physical and occupational therapy. All changes of program must also be approved by the directors, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or beyond the first Saturday after the opening of the Spring Session except by special permission.

Fees

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees..

The following fees are prescribed for physical and occupational therapy:

(a) University Fee

For each Winter or Spring Session or any part thereof . . . \$10.00

(b) Tuition Fee

For all courses, per point, except in cases where a special fee is fixed 12.50

With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be . . . 190.00

(c) Miscellaneous Fees

1. For application for the certificate 10.00
2. For late application for certificate 3.00
3. For renewal of application for certificate 1.00
4. For special examination 3.00
5. For late application for a special examination 3.00

(d) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the Academic Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

LOAN FUNDS

Loan funds are provided in limited amount for student assistance. Application is made on a blank which may be obtained from the Bursar, Room 310

University Hall. Application for loans for the Winter Session should be made by September 15; for the Spring Session, by January 15.

SCHOLARSHIPS

Funds for scholarships and other student loans are available to applicants and students in physical and occupational therapy through Foundation grants. Applicants for these scholarships should communicate with the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate, regular attendance is required in addition to the proficiency attested by classwork and examination.

An undergraduate student may be absent without penalty in a session as follows: from a course meeting once weekly, twice; from a course meeting twice weekly, three times; from a course meeting three times weekly, five times; from a course meeting four times weekly, six times; from a course meeting five times weekly, seven times; and from a course meeting six times weekly, eight times. Each student is responsible for keeping a record of the date of each absence or lateness and the reason therefor. Tardiness counts as half an absence.

In case this limit is exceeded, a student may file with the Registrar at the end of the course a statement showing the cause of each absence. If, in the judgment of the Adviser, these causes were imperative, full or partial credit for the course may be assigned, in accordance with the extent and reason of the student's absence and the standing attained in the course.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

THE LIBRARY

The University Library system consists of the main collection housed in South Hall and over thirty departmental libraries and reading rooms located in various buildings. These libraries contain about 1,973,000 volumes, exclusive of unbound pamphlets. Among those affording unusual advantage to the students in physical and occupational therapy are the libraries of Teachers College and the Medical Library of the College of Physicians and Surgeons located at the Columbia-Presbyterian Medical Center. A special alcove contains the latest literature relating to war medicine. The periodical room is especially equipped to foster and encourage research work.

The physical and occupational therapy collection is housed in the Psychology Reading Room, 516 Schermerhorn, which is open each weekday from 9 a.m. until 5 p.m. (Saturday 9 a.m. to 12 m.).

Students registered for physical or occupational therapy courses have the privilege of using the Lending Service Department (Room 203 South Hall), which provides for a small daily fee not only current books of general interest,

fiction and nonfiction, but also books needed for required and recommended reading in many courses.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

MEDICAL SERVICE

The University Medical Officer has direct supervision of all matters affecting the health of the student body. All cases of illness, especially communicable diseases, must be promptly reported to him. Absence from classes due to illness must also be reported to his office. The University Medical Officer and the members of his staff hold office hours daily in Earl Hall for consultation with students.

Members of the University who need medical attention at home and who desire to be advised concerning private physicians, specialists, and nursing care will receive such information at the office of the University Medical Officer.

Medical Examination: In accordance with the requirements of the American Medical Association a physical examination, including tuberculin tests, will be given each student in the professional courses during the first session of attendance. A fee of \$5.00 is charged for this examination, which is payable at the time of registration. Further physical examination will be repeated annually during the training period when deemed advisable.

MEDICAL CENTER BOOKSTORE

For the convenience of students, the University Bookstore maintains a branch situated in the College of Physicians and Surgeons. The store carries a large stock of textbooks, domestic and foreign, and all other student supplies. Substantial savings are effected whenever manufacturers and publishers permit.

RESIDENCE

All women students under twenty-three years of age who are not living at home or with relatives are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Detailed information concerning desirable accommodations may be obtained from this office.

Recommended accommodations include certain Residence Halls of the University and student-living clubs adjacent to the Campus, all of which provide easy access to libraries and classrooms, as well as satisfactory social centers.

Students coming from out of town to attend evening classes, or those who wish to stay overnight at Columbia for any reason, may secure accommodations by the night. Information may be obtained from the Residence Halls business office, 125 Livingston Hall.

Johnson Hall is the University Residence Hall for graduate and professional women students. For information apply to the Head of Johnson Hall, 301 Philosophy, until September 1, 1945, and thereafter directly to Johnson Hall.

STUDENT ACTIVITIES

The Physical and Occupational Therapy Club is the student organization in which activities of a recreational, social, and professional nature are carried on. Men and women prominent in these fields are invited to address the Club.

Each class of students has its own organization and officers.

Opportunities for exercise and recreation are provided.

Students are encouraged to utilize the educational and cultural opportunities offered in the city of New York.

EMPLOYMENT

The Appointments Office, located in Alumni House, is the central placement department of the University through which men and women students and graduates are referred to suitable positions.

Students and prospective students who wish to use the facilities of the Appointments Office should address themselves to the Secretary of Appointments, Alumni House.

PROFESSIONAL COURSES IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

- WILLIAM BENHAM SNOW, M.D. *Director of Physical and
Occupational Therapy, Columbia-Presbyterian Medical Center*
JOSEPHINE L. RATHBONE, Ph.D. *Director of Training Courses
for Physical Therapy Technicians*
MARJORIE FISH, A.B., O.T.R. *Director of Training Courses for
Occupational Therapy Technicians*
MARGUERITE ABBOTT, O.T.R. *Associate Director of Training Courses
for Occupational Therapy Technicians*

ADVISORY COMMITTEE

- WALTER W. PALMER, M.D., *Chairman* *Bard Professor of Medicine*
SAMUEL R. DETWILER, Ph.D. *Professor of Anatomy*
MAGNUS I. GREGERSEN, Ph.D. *Dalton Professor of Physiology*
TRACY J. PUTNAM, M.D. *Professor of Neurology and
Neurological Surgery*
ALAN DEFOREST SMITH, M.D. *Professor of Orthopedic Surgery*
WILLIAM BENHAM SNOW, M.D. *Assistant Professor of Medicine*
ALLEN O. WHIPPLE, M.D. *Valentine Mott Professor of Surgery*
WILLARD C. RAPPLEYE, M.D. (*ex officio*) *Dean, College of
Physicians and Surgeons*

OFFICERS OF INSTRUCTION

PHYSICAL THERAPY

WILLIAM B. ATKINSON

B.S., M.S., Virginia; Ph.D., Yale.

Instructor in Anatomy in the College of Physicians and Surgeons.

MARY ELIZABETH CALLAHAN

R.N., A.R.P.T.T.

Technician in Physical Therapy, Columbia-Presbyterian Medical Center.

ELLEN M. COVELL

R.N.; B.S., Columbia.

Supervisor and Instructor, The Association for the Aid of Crippled Children.

HERMAN N. EISEN

A.B., M.D., New York University.

Assistant in Pathology in the College of Physicians and Surgeons.

HERBERT O. ELFTMAN

A.B., A.M., California; M.D., Columbia.

Assistant Professor of Anatomy in the College of Physicians and Surgeons.

MARJORIE FISH

A.B., Swarthmore; O.T.R., Boston School of Occupational Therapy.

Director of Training for Occupational Therapy Technicians.

ARNO DAVID GUREWITSCH

M.D., Basel.

Assistant in Medicine in the College of Physicians and Surgeons; Assistant Physician, Physical Therapy in the Neurological Institute; Associate Physician in charge of Physical Therapy in the New York State Reconstruction Home.

VALERIE HUNT

B.S., Florida State College; A.M., Columbia.

Assistant in Department of Health and Physical Education in Teachers College.

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A.B., Bryn Mawr; A.M.; Ph.D., Columbia.

Instructor in Psychology, Columbia University.

A. PHILIP MOORADIAN

Designing Engineer, Mooradian High Frequency Laboratories, Bogota, New Jersey.

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A.B., Wellesley; A.M.; Ph.D., Columbia.

Associate Professor of Health and Physical Education in Teachers College; Director of Training for Physical Therapy Technicians.

MARJORIE P. SHELDON

B.S., Health and Physical Education, New York University, 1936; A.M., Supervision and Administration, New York University, 1941.

Instructor, Orthopedic Physical Education, Branch Brook School, Newark.

ALAN DE FOREST SMITH

A.B., Columbia; M.D.

Professor of Orthopedic Surgery in the College of Physicians and Surgeons.

WILLIAM BENHAM SNOW

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Assistant Professor of Medicine in the College of Physicians and Surgeons; Director of Physical and Occupational Therapy, Columbia-Presbyterian Medical Center and New York Orthopedic Hospital.

FREDERICK T. ZIMMERMAN

A.B., Bucknell; M.D., Maryland.

Instructor in Neurology in the College of Physicians and Surgeons.

JOSEPH ZUBIN

A.B., Johns Hopkins; Ph.D., Columbia.

Instructor in Psychiatry in the College of Physicians and Surgeons.

SPECIAL LECTURERS

ELMO ALBERT

B.S., Virginia.

Technician in Physical Therapy, Columbia-Presbyterian Medical Center.

FRANK D. CARROLL

M.D., Yale.

Instructor in Ophthalmology in the College of Physicians and Surgeons.

MARY A. COVER, A.R.P.T.T.

Head Technician, Physical Therapy, Neurological Institute.

CASSIUS LOPEZ DE VICTORIA

M.D., New York Homeopathic.

Instructor in Medicine in the College of Physicians and Surgeons; Director, Physical Therapy, St. Clare's Hospital.

JULIA SINGER HALLER

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Head Technician, Physical Therapy, Columbia-Presbyterian Medical Center.

EDWARD F. HARTUNG

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Assistant Clinical Professor of Medicine in the Post-Graduate Medical School.

JETTA HENDIN

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PAUL FREDERICK ADAM HOEFER

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Associate Professor of Neurology in the College of Physicians and Surgeons.

HANS KRAUS

M.D., Vienna.

Chief of Physical Therapy, Vanderbilt Clinic, Columbia-Presbyterian Medical Center.

FREDERICK C. MACCURDY

B.S., Columbia ; M.D. ; Ph.G., Washington.
Commissioner, New York State Department of Mental Hygiene ; Lecturer in Nursing Education
in Teachers College.

JAMES LOWRY MILLER

M.D., Pennsylvania.
Assistant Clinical Professor of Dermatology in the College of Physicians and Surgeons.

JOSEPH MOLDAVER

M.D., University of Brussels.
Research Associate in Neurology in the College of Physicians and Surgeons.

ROBERT MULLER

M.D., Prague.
Instructor in Medicine in the College of Physicians and Surgeons ; Director, Physical Therapy,
St. Luke's Hospital.

CLAY RAY MURRAY

M.D., Columbia.
Professor of Orthopedic Surgery in the College of Physicians and Surgeons.

VERONICA O'BRIEN

M.D., Michigan.
Instructor in Neurology in the College of Physicians and Surgeons.

MARGARET A. O'NEILL

B.S., New York University ; A.M. Graduate of the Sargent School for Physical Education.
Head Technician in Physical Therapy, New York State Reconstruction Home, Haverstraw, N. Y.

FRANK KNAPP SAFFORD, JR.

M.D., Vienna.
Physician in Charge, Physical Therapy, City Hospital ; Assistant in Medicine in the College of
Physicians and Surgeons.

BERTRAM J. SANGER

A.B., Texas ; M.D., Johns Hopkins.
Assistant Clinical Professor of Medicine in the College of Physicians and Surgeons.

BEVERLY CHEW SMITH

M.D., Virginia.
Associate in Surgery in the College of Physicians and Surgeons.

S. EISENMENGER WEBER

D.S., Eastern Reserve.
Head Technician, Clinic for Postural Correction, Vanderbilt Clinic.

JEROME P. WEBSTER

A.B., Trinity ; M.S. ; M.D., Johns Hopkins.
Assistant Professor of Clinical Surgery in the College of Physicians and Surgeons.

EUGEN WEISSENBERG

M.D., Vienna.
Assistant Physician, Vanderbilt Clinic and Presbyterian Hospital.

GENERAL STATEMENT

Physical therapy occupies an ever-growing importance in the practice of medicine and surgery. It embodies the utilization of such natural agents as sunshine, water, exercise, massage, mechanical forces, and electricity as aids in the treatment of disease and injury. Functional rehabilitation of persons injured in the armed services and in civilian activities becomes a major need in time of war. The skillful application of physical therapy following injury will do much to shorten the time of disability. There is need for highly trained physical therapy technicians to assist with the care of these patients. Furthermore, in the severely injured cases, physical therapy considerably lessens the ultimate disability. The success of this type of treatment depends upon the technician's knowledge of the pathology to be treated, and upon the care and precision with which the physical treatment is administered.

The course of study here described gives the student a basic knowledge of the human organism and the functions of the body in health as well as those diseases in which physical therapy can be helpful. The various physical methods are thoroughly considered and modern techniques of application are taught. The application of this form of treatment to meet special medical problems is the final consideration. In the latter half of the course, ample hours are spent in treatment clinics in affiliated hospitals where the technician gets the opportunity to apply physical therapy to sick and injured patients. The technician is trained to work under physicians and surgeons in accordance with the highest ethical standards of the profession.

The proposal to offer a Bachelor of Science degree for qualified candidates is now under consideration.

The program utilizes the clinical and educational facilities of various academic departments of the University, the College of Physicians and Surgeons, and the Departments of Nursing Education and of Health and Physical Education of Teachers College.

Arrangements have been made with the Division of Nursing Education of Teachers College, Columbia University, by which qualified graduate nurses may combine the advanced course in orthopedic nursing offered in that Division with the program in physical therapy and complete the requirements of both in a minimum time.

ADMISSION REQUIREMENTS

Admission to the professional courses is open to qualified students aged 19 to 35 years.

Applicants for admission must be graduates of approved high schools and must satisfy *one* of the following requirements:

- (a) Two years or sixty semester hours of acceptable college work, including courses in biology and other sciences, physics and chemistry recommended, or
- (b) Graduation from an accredited school of nursing, or
- (c) Graduation from an accredited school of physical education

Students who cannot meet one of the requirements (a, b, or c) will not be admitted to the professional courses, but may be allowed to complete requirement (a), two years of acceptable college work, in University Extension.

In considering application, quality of preparation is important. Demands made on the physical endurance and emotional stamina of the therapist require a good record in these respects.

For details of Admission Procedure see pages 2 and 3.

ESTIMATED EXPENSES FOR THE TOTAL COURSE

Following is an itemized estimate of expenses of attendance in the courses in physical therapy:

Tuition and fees (academic year)	\$400.00
Tuition and fees (Summer Session)	107.00
Books, materials, and equipment	50.00
Certificate fee	10.00
Fee for physical examination (payable at first registration)	5.00
	<hr/>
	\$572.00

<i>Living Expenses (total course)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$270	\$200
Board	337	285
	<hr/>	<hr/>
	\$607	\$485

COURSE OF STUDY

FOR PHYSICAL THERAPY TECHNICIANS

A typical outline of the program of studies for the entire course (ten months) is given below. This course of study meets requirements of and is approved by the Council on Medical Education and Hospitals of the American Medical Association.

WINTER SESSION

	<i>Points</i>
<i>Anatomy</i> 155	Anatomy and physiology 3
<i>Pathology</i> 1	Elementary studies in pathology 1
<i>Neurology</i> 101	Elementary neurology 2
<i>Psychology</i> 433	Abnormal psychology 2
<i>P. T. Massage</i> 3	Massage—theory and practice 2
<i>P. T. Ethics</i> 39	Ethics and institutional aspects of physical therapy . 1
<i>P. T. Physics</i> 111	Physics applied to physical medicine 2
<i>Phys. Ther. Theory</i> 10	Theory and practice of heat application, radiation, and hydro-therapy 2
<i>T. C. Phys. Ed.</i> 105	Applied anatomy and kinesiology 1
<i>T. C. Recreation</i> 140	Rehabilitation through physical education and recreation 2
<i>T. C. Phys. Ed.</i> 151	Elementary swimming 1
	<hr/> 19

SPRING SESSION

<i>Phys. Ther. Theory</i> 14	Theory and practice of electro-therapy, etc. 2
<i>Phys. Ther. Theory</i> 16	Individual instruction and return demonstration . . 2
<i>Phys. Ther. Exercise</i> 112	Therapeutic exercise 3
<i>P. T. Massage</i> 4	Advanced massage 1
<i>P. T. Practical Application</i> 30	Practical application of physical therapy 2
<i>P. T. Orthopedics</i> 136	Orthopedics 2
<i>P. T. Kinesiology</i> 106	Applied kinesiology 1
<i>T. C. Phys. Ed.</i> 156	Physiology of exercise 2
<i>T. C. Hygiene</i> 168D	Methods in relaxation 2
<i>Psychiatry</i> 102	Elementary psychiatry 2
	<hr/> 19

SUMMER SESSION

<i>P. T. Bandaging</i> 517	Bandaging and dressing 1
<i>P. T. Practical Application</i> 532	Practical application of physical therapy 4
<i>P. T. Rehabilitation</i> 5150	Rehabilitation and acceptance of handicaps 2
<i>P. T. Theory</i> 512	Therapeutic exercise 1
	<hr/> 8

HOSPITALS AFFILIATED FOR CLINICAL TRAINING

(Attendance concurrent with theoretical and technical work)

In addition, all students are required to spend a period during intersession in full-time clinical practice.

Columbia-Presbyterian Medical Center Hospitals

John S. Parke, *Executive Vice-President*

John F. McCormack, *Superintendent*

Presbyterian Hospital

Miss Mary Reid, *Superintendent*

Mrs. Edith Hansen, R.N., A.R.P.T.T., *Head Technician, Physical
Therapy Department*

Neurological Institute

Miss Marie Byron, R.N., *Superintendent*

Miss Mary A. Cover, A.R.P.T.T., *Head Technician, Physical Therapy
Department*

Babies Hospital

Miss Ruth Campbell, R.N., *Superintendent*

Institute for the Crippled and Disabled

Col. John N. Smith, Jr., *Director*

George G. Deaver, M.D., *Medical Director*

Miss Mary Eleanor Brown, *Therapist*

New York Orthopaedic Dispensary and Hospital

Miss Theodora S. Root, *Superintendent*, Main Hospital, 420 East 59th
Street, New York 22, N. Y.

Miss Katherine Giblin, A.R.P.T.T., *Head Technician, Physical Therapy
Department*

New York Post-Graduate Hospital

William B. Talbot, M.D., *Superintendent*

State of New York Reconstruction Home, West Haverstraw, N. Y.

Edward S. Godfrey, Jr., M.D., *Commissioner*, Department of Health,
State of New York

Kenneth S. Landauer, *Acting Superintendent*

Margaret A. O'Neill, A.M., A.R.P.T.T., *Head Technician, Physical
Therapy Department*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE: For additional courses open to students in physical therapy consult the Announcements of Teachers College and University Extension.

WINTER SESSION

Anatomy 155—Anatomy and physiology. Lectures and laboratory. 3 points. Professor ELFTMAN and Dr. ATKINSON.

For students in physical and occupational therapy. Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit.

P. T. Physics 111—Physics applied to physical medicine. 2 points. Mr. MOORADIAN.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

T. C. Physical Education 105—Applied anatomy and kinesiology. 1 or 2 points. Professor RATHBONE.

Applied anatomy and kinesiology for students who have had basic courses in biology. Topics include: review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, analysis of skills used in physical education and in physical and occupational therapy.

P. T. Massage 3—Massage—theory and practice. 2 points. Dr. GUREWITSCH and assistants.

The theory and practice of massage with laboratory demonstrations and practice on patients.

P. T. Pathology 1—Elementary studies in pathology. 1 point. Instructor to be announced.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

P. T. Ethics 39—Ethics and institutional aspects of physical therapy. 1 point. Professor SNOW and Dr. MACCURDY.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

Neurology 101—Elementary neurology. 2 points. Dr. ZIMMERMAN.

Anatomy of the central, peripheral, and sympathetic nervous systems. Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Prerequisite: Abnormal psychology.

Psychology u33—Abnormal psychology. 2 points. Dr. ZUBIN.

This course describes the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

T. C. Recreation 140—Rehabilitation through physical education and recreation. 1 or 2 points. Professor RATHBONE.

For those who are planning to work with exceptional children or to take part in postwar rehabilitation. Activities include those appropriate for various age levels and for various types of handicaps.

T. C. Physical Education 135s, Section 1 (b)—Swimming. 1 point. Under the supervision of Professor RATHBONE.

Consideration is given to the skills and teaching methods of swimming.

Physical Therapy Theory 10—Theory and practice of heat application, radiation, and hydro-therapy. 2 points. Drs. SAFFORD and GUREWITSCH.

- (a) Heat application and radiation in treatment. The theory and technique in application of radiation including heat. Actual practice in various institutions (Dr. BARRETT).
- (b) Neurological Institute. Various techniques in the use of hydro-therapy where indicated (Dr. GUREWITSCH). Mr. ESKIL ANDERSON, assisting.

SPRING SESSION

Physical Therapy Theory 14—Theory and practice of electro-therapy and miscellaneous physical therapy applications and diagnosis aids. 2 points. Professor SNOW; special lecturers: Professor HOEFER, and Drs. SAFFORD, WEISSENBERG, and MOLDAVER.

- (a) Technique of application of electro-therapy.
- (b) Other miscellaneous physical therapy applications and diagnostic aids not otherwise provided for.

Physical Therapy Theory 16—Individual instruction and return demonstration of physical therapy applications and hospital practice. 2 points. Misses CALLAHAN and HANSEN.

Intimate instruction in technique of application of the various modalities of physical therapy with return demonstrations by the student.

Physical Therapy Exercise 112—Therapeutic exercise. 2 or 3 points. Professor SNOW and associates.

Fundaments of muscle re-education; the application of directed movement as an accessory in the treatment of altered function; includes underwater techniques and practice in the treatment of crippled patients.

P. T. Orthopedics 136—Orthopedics. 2 points. Professor SMITH and staff.

Lectures and clinical presentations descriptive of orthopedic conditions; some discussion as to problems—personal, medical, surgical. Rehabilitation problems common to this group of patients. (The physical therapy for the treatment of these conditions will be covered under the summer course in Practical Application of Physical Therapy.)

P. T. Practical Application 30—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 2 points. Professor SNOW and associates.

This course gives the students a closer acquaintance with disease as it occurs in medical practice. Specialists discuss the problems in their fields of practice including particular pathology and they present the needs of physical therapy. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

(The 2 points for the Spring Session are followed by 4 points more in the Summer Session.)

Psychiatry 102—Elementary psychiatry. 2 points. Dr. ZIMMERMAN.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: Abnormal psychology.

T. C. Hygiene 168D—Methods in relaxation. 2 points Spring Session. Professor RATHBONE.

The causes of fatigue and neuromuscular hypertension and some approved methods for release of tension. Those needing extra practice in relaxation should elect *Physical Education 136s* (Teachers College).

P. T. Kinesiology 106—Applied kinesiology. 1 point. Miss COVELL.

The application of kinesiology in the treatment of altered body function, including the Kenny concept in the treatment of infantile paralysis.

T. C. Physical Education 156—Physiology of exercise. 2 points. Professor RATHBONE.

Lectures, demonstrations, and readings, covering the following: the nature of muscular contraction; fatigue, breathlessness, and exhaustion; the effect of exercises of speed, strength, skill, and endurance on circulation, respiration, coordination, and the body as a whole; the physiology of growth and development; exercise adapted to age and sex.

P. T. Massage 4—Advanced massage. 1 point. Dr. GUREWITSCH and assistants. Neurological Institute.

Lectures and demonstrations of massage in the treatment of medical entities.

Prerequisite: *Massage 3*.

Physical Therapy u31 or u32—Hyperthermia (fever therapy). 2 points Winter or Spring Session by special arrangement. Professor SNOW.

Available to graduate nurses only.

Course will not be offered for fewer than six students.

SUMMER SESSION

P. T. Theory s12—Therapeutic exercise. 1 point June Intersession. Miss O'NEILL.

Students, resident at New York State Reconstruction Home for a period of three weeks, receive instruction in underwater exercise, methods of rehabilitation, and observation and practice in muscle testing, with special attention to the treatment of anterior poliomyelitis.

P. T. Practical Application s32—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 4 points. Professor SNOW and associates. Presbyterian Hospital.**P. T. Rehabilitation s150—Rehabilitation and acceptance of handicaps. 2 points. Miss SHELDON.**

The readjustment physically and psychologically of the handicapped patient to meet the progressive problems of life; a consideration of the agencies for assisting handicapped individuals.

P. T. Bandaging s17—Bandaging and dressing. 1 point. Dr. KRAUS and assistants.

The technique of bandaging, asepsis, handling of dressings; bedside conduct.

OFFICERS OF INSTRUCTION

OCCUPATIONAL THERAPY

- MARGUERITE ABBOTT *Principles and Practice of Occupational Therapy*
 Jackson College, 1923-1924; O.T.R., Boston School of Occupational Therapy.
 Associate Director of Training for Occupational Therapy Technicians.
- EDITH H. BROKAW *Principles and Practice of Occupational Therapy*
 Rutgers, 1937-1938; O.T.R., Philadelphia School of Occupational Therapy.
- ELLEN M. COVELL *Kinesiology*
 R.N., St. John's Long Island City Hospital; B.S., Columbia.
 Supervisor and Instructor, Association for the Aid of Crippled Children.
- HERMAN EISEN *Pathology*
 A.B., M.D., New York University.
 Assistant in Pathology in the College of Physicians and Surgeons.
- MARJORIE FISH *Theory of Occupational Therapy*
 A.B., Swarthmore; O.T.R., Boston School of Occupational Therapy.
 Director of Training for Occupational Therapy Technicians.
- FLORENCE C. HOUSE *Weaving*
 B.S., Columbia; A.M.
 Occupational Therapy.
- EDWARD L. HOWES *General Surgery*
 B.S., Yale; M.D.; M.S., Columbia; Med.Sc.D.
 Associate Clinical Professor of Surgery in the College of Physicians and Surgeons.
- M. BECKETT HOWORTH *Orthopedics*
 B.S., Mississippi; M.D., Washington; Med.Sc.D., Columbia.
 Associate in Orthopedic Surgery in the College of Physicians and Surgeons.
- VALERIE HUNT *Recreation for the Handicapped*
 B.S., Florida State College; A.M., Columbia.
 Assistant in Department of Health and Physical Education, Teachers College.
- ELIZABETH B. HURLOCK *Child Psychology*
 A.B., Bryn Mawr; A.M.; Ph.D., Columbia.
 Instructor in Psychology, Columbia University.
- HARRIET E. KNAPP *Bookbinding, Design, Leather, Minor Crafts, Reedwork*
 B.S., Columbia; A.M.
 Occupational Therapy.
- LUTIA CLEMONS LEAVELL *Biology*
 B.S., Columbia; A.M., M.S.
 Instructor in Nursing Education in Teachers College.
- MELVIN LOOS *Printing*
 Supervisor of Printing, Columbia University Press.
- BERNICE E. MAGNIE *Design*
 A.B., A.M., Colorado State College of Education.
 Instructor in Fine and Industrial Arts, Teachers College.
- HANS A. MUELLER *Printing*
 Graphic Arts, University Extension.

- JAMES L. MURSELL *Principles of Teaching*
B.A., University of Queensland, Australia; Ph.D., Harvard.
Professor of Education in Teachers College.
- ELLA ODORFER *Pottery*
A.B., North Dakota; A.M., Columbia.
Instructor in Fine and Industrial Arts in Teachers College.
- JOSEPHINE L. RATHBONE *Kinesiology; Recreation*
A.B., Wellesley; A.M.; Ph.D., Columbia.
Associate Professor of Health and Physical Education in Teachers College.
Director of Training for Physical Therapy Technicians.
- ELIZABETH SMEDES *Principles and Practice of Occupational Therapy*
A.B., Rice Institute; O.T.R., Boston School of Occupational Therapy.
Chief Occupational Therapist, Columbia-Presbyterian Medical Center.
- MARTIN DE FOREST SMITH *General Medicine*
A.B., Columbia; M.D.
Assistant Professor of Clinical Medicine in the College of Physicians and Surgeons.
- FRED STRICKLER *Woodwork, Metalwork, and General Shop*
B.S., Columbia; A.M.; Ph.D.
Assistant Professor of Education in Teachers College.
- FREDERICK T. ZIMMERMAN *Neurology and Psychiatry*
A.B., Bucknell; A.M., Columbia; M.D., Maryland.
Instructor in Neurology in the College of Physicians and Surgeons.
- JOSEPH ZUBIN *Abnormal Psychology*
A.B., Johns Hopkins; Ph.D., Columbia.
Instructor in Psychiatry in the College of Physicians and Surgeons.

SPECIAL LECTURERS

- MARGARET W. BARNARD *Public Health*
A.B., Smith; M.D., Cornell; Ph.D., Johns Hopkins.
Assistant Commissioner for District Health Administration, City of New York.
- HELEN BECHT *Rehabilitation*
A.B., Cincinnati; A.M., Columbia.
Director of Rehabilitation, Queensboro Tuberculosis and Health Association.
- FREDERIC T. ELTON *Rehabilitation*
Diploma, Massachusetts State Normal School; Massachusetts Institute of Technology, Industrial Techniques.
District Supervisor, Vocational Rehabilitation Bureau, New York State Department of Education.
- MARGUERITE EMERY *Principles and Practice of Occupational Therapy*
O.T.R., Mansfield School.
Director of Occupational Therapy, Neurological Institute, Columbia-Presbyterian Medical Center.
- BORGHILD HANSEN *Principles and Practice of Occupational Therapy*
B.S., Minnesota; O.T.R.
Occupational Therapy Consultant, Rehabilitation Service, National Tuberculosis Association.
- HOLLAND HUDSON *Rehabilitation, Tuberculosis*
Director, Rehabilitation Service, National Tuberculosis Association.

- VIOLA JONES *Principles and Practice of Occupational Therapy*
B.S., La Crosse State Teachers College; O.T.R., Milwaukee-Downer College.
Director of Workshops, Connecticut Society for the Crippled.
- HARRY D. KITSON *Vocational Guidance*
A.B., Hiram; A.M., Minnesota; Ph.D., Chicago.
Professor of Education in Teachers College.
- MARY MERRITT *Principles and Practice of Occupational Therapy*
O.T.R.
Director of Occupational Therapy Division, Department of Hospitals, City of New York.
- SADIE SHAPIRO *Rehabilitation*
Certificate, Smith School of Social Work.
Director, Department of Social Service, Hospital for Joint Diseases.
- VIRGINIA STRONG *Pediatrics*
A.B., Columbia; A.M.; M.D.
Assistant in Pediatrics, Vanderbilt Clinic, Columbia-Presbyterian Medical Center.

GENERAL STATEMENT

The practice of occupational therapy, often referred to as the "work cure," consists of remedial treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Handcrafts, recreational activities, educational pursuits and pre-industrial training are the concern of the therapist participating in modern occupational therapy programs today as they help toward the physical, mental, social, and economic adjustment of the patient.

Occupational therapy was first used on a wide scale as an aid to recovery and guide to vocational rehabilitation of service men wounded or disabled in the first World War. Recognition of its value has expanded steadily in the past twenty-four years and with its growth has come the increasing need for more trained therapists.

In response to this increasing demand, Columbia University offers a program of professional studies (under the College of Physicians and Surgeons) leading to a Certificate of Proficiency in Occupational Therapy. This program is open to qualified students who have completed two years of study in a college approved by Columbia University. The proposal to offer a Bachelor of Science degree for qualified candidates is now under consideration.

The purpose of the program is to provide training and instruction to enable the student to fulfill the educational requirements of a registered occupational therapist. The curriculum consists of two academic years of professional courses followed by one year (eight to ten months) of clinical training in various teaching hospitals under supervision of the University. The two years of classroom work are devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background together with courses in the techniques of the creative arts, recreational therapy, educational therapy, and prevocational training as they enter into the actual practice of occupational therapy. A close relationship with the Fine Arts, Nursing Education, and Health and Physical Education Departments of Teachers College makes available to the student unusual clinical, practical, and educational facilities.

The courses described in this bulletin meet the requirements set forth by the Council on Medical Education and Hospitals of the American Medical Association as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduation from an accredited course leads to eligibility for the Directory of Registered Occupational Therapists maintained by the American Occupational Therapy Association.

Today the need for therapists is twofold: the present war emergency and postwar rehabilitation. At present, the Army and Navy hospitals are demanding in numbers the services of registered occupational therapists; there is concern not only for the most effective rehabilitation of men in the armed services, but for civilian rehabilitation in the postwar period.

ADMISSION REQUIREMENTS

Students seeking admission to the University for the purpose of completing the requirements for the Certificate of Proficiency in Occupational Therapy will be considered under one of the classifications given below. Students will be admitted in September.

- A) Students who hold a baccalaureate degree acceptable to Columbia University may register on advanced standing with "time credit," completing the course in sixteen months. Such students may be considered candidates for the Certificate. Courses in natural sciences including chemistry or biology, psychology, and sociology, should be included in the college courses. The time credit plan also applies to candidates who have completed the work for a certificate in accredited professional training which includes at least one year of acceptable college work.

Under any circumstances the minimum residence requirement is sixteen months, ordinarily including seven months theoretical training and nine months in clinical practice.

- B) Students who have satisfactorily completed at least two years of acceptable work in a college approved by Columbia University may register for the regular course to be completed in two years (twenty-five calendar months). Such students are considered candidates for the Certificate. The two years in liberal arts required for admission on this basis should include chemistry or biology, psychology, and sociology.

The proposal to offer a Bachelor of Science degree for qualified candidates is now under consideration.

Students who fail to meet the requirements outlined above may apply for admission to University Extension to complete the two years of preprofessional preparation necessary to qualify them for admission under classification (B).

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. Such forms should be filed several months in advance of the time at which students wish to begin their studies.

Candidates for the professional courses must be between 19 and 35 years of age.

Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. A medical examination blank furnished by the University and signed by the candidate's physician is required before final acceptance for enrollment.

While occupational therapy is a profession of interest primarily to women, there are certain positions in the field for which it is desirable to have male therapists. For this reason a limited number of men may be admitted to the professional courses, depending upon individual qualifications.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy for a full academic year:

Tuition and fees	\$400.00
Books, materials, equipment, uniforms	60.00
Fee for physical examination (payable at first registration)	5.00
	<hr/>
	\$465.00

During clinical training students spend approximately four months of the period in residence in a hospital where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time, thereby reducing total expense. There is a registration charge only during affiliation.

There will be nominal transportation expenses for students in hospital affiliations outside of the local area.

Total cost—Three-year students, approximately	\$935.00
Total cost—Advanced standing students, approximately	475.00

<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$220	\$150
Board	277	225
	<hr/>	<hr/>
	\$497	\$375

COURSE OF STUDY

OCCUPATIONAL THERAPY

A typical outline of the program of studies for each year of the course of study is given below. In the three-year course the first two years are spent on the Campus in theoretical and technical study. The third year (8-10 months) is devoted to clinical practice in mental, general, children's, orthopedic, tuberculosis services, or hospitals.

Under the plan of acceleration the summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Students granted "time credit" (see page 23) and completing the course in sixteen months carry a program combining first- and second-year courses during the one year spent on the Campus. The second year (clinical practice) is the same as for full-time students.

FIRST YEAR

	<i>Winter Session</i>	<i>Points</i>
<i>Occ. Ther. 11</i>	Elementary theory of occupational therapy	2
<i>Psychology u33</i>	Abnormal psychology	2
<i>Psychology u57</i>	Child psychology	2
<i>Anatomy 155</i>	Anatomy and physiology	3
<i>Pathology 1</i>	Elementary studies in pathology	1
<i>T. C. Recreation 140</i>	Rehabilitation through physical education and recreation	2
<i>O. T. Fine Arts 41</i>	Bookbinding	2
<i>O. T. Fine Arts 163</i>	Woodwork	2
<i>Elective</i>		2
		<hr/> 18

Spring Session

<i>Occ. Ther. 12</i>	Theory of occupational therapy	2
<i>Occ. Ther. 14</i>	Principles and practice of occupational therapy	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>T. C. Biology 153b</i>	Muscles, bones, joints	1
<i>T. C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O. T. Fine Arts 22</i>	Minor crafts	3
<i>O. T. Fine Arts 164</i>	Woodwork	2
<i>O. T. Fine Arts 188</i>	Elementary weaving	2
<i>Elective</i>		2
		<hr/> 18

SECOND YEAR

	<i>Winter Session</i>	<i>Points</i>
<i>Occ. Ther. 21</i>	Advanced theory of occupational therapy	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Neurology 101</i>	Elementary neurology	2

SECOND YEAR (Continued)

	Winter Session	Points
<i>T. C. Phys. Ed. 105</i>	Practical and applied kinesiology	2
<i>O. T. Graphic Arts 1R</i>	Art of hand printing	2
<i>O. T. Ind. Arts 103</i>	Machine shop practices	2
<i>O. T. Fine Arts 105</i>	Interpretive design	2
<i>O. T. Fine Arts 189</i>	Advanced weaving	4
		<hr/> 18

	Spring Session	
<i>Occ. Ther. 22</i>	Advanced theory of occupational therapy	2
<i>Occ. Ther. 24</i>	Advanced principles and practice of occupational therapy	2
<i>Occ. Ther. 118</i>	Rehabilitation	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, public health	2
<i>Phys. Ther. Exercise 112</i>	Therapeutic exercise	2
<i>T. C. Education 233 MK</i>	Principles of teaching	2
<i>O. T. Fine Arts 26</i>	Leather	1
<i>O. T. Fine Arts 28</i>	Pottery	2
<i>O. T. Fine Arts 10</i>	Garment construction	1
<i>O. T. Fine Arts 168</i>	General shop	2
		<hr/> 18

ADVANCED STANDING

	Winter Session	Points
<i>Occ. Ther. 11</i>	Elementary theory of occupational therapy	2
<i>Anatomy 155</i>	Anatomy and physiology	3
<i>Psychology 433</i>	Abnormal psychology	2
<i>T. C. Phys. Ed. 105</i>	Practical and applied kinesiology	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>O. T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O. T. Graphic Arts 103</i>	Machine shop practices	2
<i>O. T. Fine Arts 163</i>	Woodwork	2
<i>O. T. Fine Arts 189</i>	Advanced weaving	3
		<hr/> 19

	Spring Session	
<i>Occ. Ther. 12</i>	Theory of occupational therapy	2
<i>Occ. Ther. 24</i>	Advanced principles and practice of occupational therapy	2
<i>Occ. Ther. 118</i>	Rehabilitation	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, public health	2
<i>Phys. Ther. Exercise 112</i>	Therapeutic exercise	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>T. C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O. T. Fine Arts 22</i>	Minor crafts	1
<i>O. T. Fine Arts 42</i>	Bookbinding	2
<i>O. T. Fine Arts 168</i>	General shop	2
		<hr/> 19

Attendance at a weekly seminar is required of all advanced standing students during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory and principles and practice of occupational therapy.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL TRAINING

The eight to ten months of clinical training consist of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as physical education, educational therapy, and prevocational therapy.

The Association for the Aid of Crippled Children, New York, N. Y.

Mrs. Alice Fitzgerald, R.N., *Executive Secretary*

Mrs. Harold Meeske, O.T.R., *Director of Occupational Therapy*

Brattleboro Retreat, Brattleboro, Vermont

George Elliott, M.D., *Superintendent*

Director of Occupational Therapy to be announced

Bridgeport Workshop, Bridgeport, Conn.

Lester C. Burdick, *President*

Mrs. Eleanor P. Mann, O.T.R., *Director of Occupational Therapy*

The Children's Hospital, Buffalo, N. Y.

Moir P. Tanner, *Superintendent*

Miss Veronica Cavanaugh, O.T.R., *Director of Occupational Therapy*

Children's Rehabilitation Institute, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*

Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

Columbia-Presbyterian Medical Center Hospitals, New York, N. Y.

John S. Parke, *Executive Vice-President*

John F. McCormack, *Superintendent*

Presbyterian Hospital

Miss Mary Reid, *Superintendent*

Miss Elizabeth Smedes, O.T.R., *Chief Occupational Therapist*

Neurological Institute

Miss Marie C. Byron, R.N., *Superintendent*

Miss Marguerite Emery, O.T.R., *Director of Occupational Therapy*

Community Rehabilitation Workshop, Hartford, Conn.

W. Watson House, *President*

Miss Margaret Blodgett, O.T.R., *Director of Occupational Therapy*

Fairfield State Hospital, Newton, Conn.

Clifford D. Moore, M.D., *Superintendent*

Miss Bertha J. Piper, O.T.R., *Director of Occupational Therapy*

Hermann M. Biggs Memorial Hospital, Ithaca, N. Y.

N. Stanley Lincoln, M.D., *Superintendent*

Miss Frances Haskins, O.T.R., *Director of Occupational Therapy*

Hospital for Special Surgery, New York, N. Y.

F. Wilson Keller, *Director*

Miss Edith H. Brokaw, O.T.R., *Director of Occupational Therapy*

Industrial Workshops, Rochester, N. Y.

Miss Elizabeth K. Wise, O.T.R., *Director*

Montefiore Hospital for Chronic Diseases, New York, N. Y.

E. M. Bluestone, M.D., *Director*

Miss Celia M. Pearson, O.T.R., *Occupational Therapist*

Montefiore Hospital—Country Sanatorium, Bedford Hills, N. Y.

Norman Mayer, *Rehabilitation Executive*

Harold Doyle, O.T.R., *Occupational Therapist*

New York City Department of Hospitals

Miss Mary E. Merritt, O.T.R., *Director, Division of Occupational Therapy*

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

City Home for the Blind

Miss Grace Hildenbrand, O.T.R., *Acting Supervisor of Occupational Therapy*

City Hospital

Mrs. Edith House, O.T.R., *Supervisor of Occupational Therapy*

Municipal Sanatorium, Otisville, N. Y.

Miss Ray C. Reeves, O.T.R., *Supervisor of Occupational Therapy*

Sea View Hospital

Miss E. Adele Palmer, O.T.R., *Supervisor of Occupational Therapy*

Welfare Hospital for Chronic Diseases

Miss Frances E. Heess, O.T.R., *Director of Occupational Therapy*

New York Hospital, New York, N. Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Charge*

Miss Ruth Kinney, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Charge*

Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

New York State Department of Mental Hygiene (Hospitals of)

Pilgrim State Hospital, Brentwood, L. I.

Harry J. Worthing, M.D., *Superintendent*

Miss Virginia Scullin, O.T.R., *Director of Occupational Therapy*

Psychiatric Institute and Hospital, New York, N. Y.

Nolan D. C. Lewis, M.D., *Superintendent*

Miss Marguerite Vaughan, O.T.R., *Director of Occupational Therapy*

Niagara Sanatorium (Niagara County), Lockport, N. Y.

Arthur N. Aitken, M.D., *Superintendent*

Mrs. Charlotte Briggs, O.T.R., *Director of Occupational Therapy and Rehabilitation*

Rehabilitation Center, Liberty Mutual Insurance Co., Boston, Mass.

Stanwood L. Hanson, *Director of Rehabilitation*

Miss Nancy Martin, O.T.R., *Director of Occupational Therapy*

Sheppard and Enoch Pratt Hospital, Towson, Maryland

Ross McG. Chapman, M.D., *Superintendent*

Mrs. Marshall Price, O.T.R., *Director of Occupational Therapy*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE: For electives and additional courses open to students in occupational therapy consult the Announcements of Teachers College and University Extension.

FIRST YEAR

Occupational Therapy 11-12—Theory of occupational therapy. 2 points each session. Miss FISH and special lecturers.

A general survey of the field. Correlation of theoretical principles with practical application. History and development of occupational therapy with special reference to present uses and techniques in the major medical fields. Professional and hospital ethics and etiquette. Supplementary reading and reports. Field visits.

Occupational Therapy 14—Principles and practice of occupational therapy. 2 points Spring Session. Miss BROKAW.

Lecture and laboratory work in application of principles with emphasis on adaptation of equipment and apparatus as used in the orthopedic field. Demonstration and return demonstrations with emphasis on functional analysis of treatment activities.

Psychiatry 102—Elementary psychiatry. 2 points Spring Session. Dr. ZIMMERMAN.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: Abnormal psychology.

Psychology u33—Abnormal psychology. 2 points Winter Session. Dr. ZUBIN.

This course describes the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Psychology u57—Child psychology. 2 points Winter Session. Dr. HURLOCK.

This course covers the important phases of development during the early childhood years, from birth to adolescence. The specific topics studied include: physical growth; motor development; learning to walk; emotions; social development; play; childhood mysteries and personality. The common problems that arise at different times during the childhood years are discussed, and suggestions made in regard to the best methods of dealing with them.

Prerequisite: Psychology.

Anatomy 155—Anatomy and physiology. Lectures and laboratory. 3 points Winter Session. Professor ELFTMAN and Dr. ATKINSON.

Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit.

Pathology 1—Elementary studies in pathology. 1 point Winter Session. Dr. EISEN.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

T. C. Recreation 140—Rehabilitation through physical education and recreation. 1 or 2 points Winter Session. Professor RATHBONE.

For those who are planning to work with exceptional children or to take part in postwar rehabilitation. Activities include those appropriate for various age levels and for various types of handicaps.

T. C. Biology 153b—Bones, joints, muscles. 1 point Spring Session. Miss LEAVELL.

For students who wish additional study on bones, joints, muscles and experience in handling laboratory materials.

T. C. Fine Arts 101T—Fundamentals of design. 2 points Spring Session. Miss MAGNIE.

The fundamental principles of design and their interrelations are studied through experiences in two- and three-dimensional designing. Practice in decorative and abstract design for textiles, posters, ceramics, and other art forms. Museum and store visits, lectures, readings, and discussions.

O. T. Fine Arts 163-164—Woodwork. 2 points each session. Professor STRICKLER.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tool and finishing processes. Elementary principles of mechanical drawing.

There will be a charge for materials.

O. T. Fine Arts 22—Minor crafts. 1, 2, or 3 points Spring Session. Miss KNAPP.

Etching, hand puppets, and marionettes; hooking, knitting, knotting, netting, ropework, needlecraft, plastics, reed, raffia, and cane seating.

O. T. Fine Arts 42—Bookbinding. 2 points each session. Miss KNAPP.

Instruction in the basic processes of book and magazine binding, pamphlets, portfolios, and book repair. Decorative paper bindings, cloth and leather bindings. Problems of materials and costs are considered.

O. T. Fine Arts 188—Elementary weaving. 2 points Spring Session. Miss HOUSE.

A workshop course in beginning weaving. Problems include the use of small appliances such as cards, inkle looms, rigid and string heddle looms for making belts, bags, and other articles. Experimenting with unusual as well as standard yarns, for texture and color work. Dyeing. Plain weaving, simple harness-controlled patterns and standard weaves. Learning the mechanism and setting up of the loom, as well as the making of patterns and reading and writing of drafts. Trips to museums and various other institutions.

SECOND YEAR

Occupational Therapy 21-22—Advanced theory of occupational therapy. 2 points each session. Miss FISH and special lecturers.

A review and advanced study of theory and techniques in the application of occupational therapy in the various medical fields: mental, tuberculosis, pediatrics, general medical and surgical conditions, orthopedics, cardiac, blind and deaf. Study of departmental organization and administration. Consideration of the role of occupational therapy in present-day rehabilitation, correlating creative arts, recreational, educational, and industrial trends. Supplementary reading and reports.

Occupational Therapy 24—Advanced principles and practice of occupational therapy. 2 points Spring Session. Miss ABBOTT.

Lecture and laboratory course in application of techniques in treatment of orthopedic conditions, including cerebral palsy and physical injuries. Measuring and charting of joint motion and muscle strength.

Demonstration and return demonstration by the student.

Occupational Therapy 118—Rehabilitation. 2 points Spring Session. Miss FISH, coöordinator; special lecturers: Messrs. ELTON and HUDSON, Misses BECHT and SHAPIRO, and practicing therapists.

A survey of public and private agencies offering facilities for the physical and vocational rehabilitation of handicapped persons including guidance, training, and placement. A study of organization and legislation of state and Federal vocational rehabilitation to acquaint the student with community resources, especially in terms of present-day trends. Case histories and field trips.

Clinical Subjects 101–102—General medicine and surgery, pediatrics, orthopedics, and public health. 2 points each session.

General Medicine. Dr. SMITH.

General Surgery. Dr. HOWES.

A consideration of the manifestations, complications, and convalescence in medical and surgical conditions for which occupational therapy is prescribed. Clinical lectures and case demonstrations.

Orthopedics. Dr. HOWORTH.

Diseases and injuries of bones, joints, and muscles, causing impairment of function and deformity. Consideration is given to body mechanics. Clinical lectures and case demonstrations.

Pediatrics. Dr. STRONG.

A study of the common diseases of childhood.

Public Health. Dr. BARNARD.

An orientation course to familiarize the student with phases of preventive medicine and public health problems including communicable and contagious diseases, tuberculosis, blindness, and deafness.

Neurology 101—Elementary neurology. 2 points Winter Session. Dr. ZIMMERMAN.

Anatomy of the central, peripheral, and sympathetic nervous systems. Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Prerequisite: Abnormal psychology.

T. C. Physical Education 105—Applied anatomy and kinesiology. 1 or 2 points Winter Session. Professor RATHBONE.

Applied anatomy and kinesiology for students who have had basic courses in biology. Topics include: review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, analysis of skills used in physical education and in physical and occupational therapy.

T. C. Education 233Mk—Principles of teaching. 2 or 3 points Spring Session. Professor MURSELL.

The nature of the teaching-learning process, the significance of personality, the teacher's qualifications, preparation, and responsibility, and some resulting implications for curriculum.

Physical Therapy Exercise 112—Therapeutic exercise. 2 or 3 points Spring Session. Professor SNOW, Dr. KRAUS, and associates.

Fundamentals of muscle re-education; the application of directed movement as an accessory in the treatment of altered function; includes practice in the treatment of crippled patients.

O. T. Fine Arts 28—Pottery. 2 points Spring Session. Mrs. ODORFER.

An introduction to the vast possibilities and methods of using clay to create functional pottery with coils, by casting, and with the potter's wheel. Mold making, methods of decorating, glazing, and firing of kilns are studied for practical use in teaching.

Students are charged \$2.00 for materials supplied by the department.

O. T. Fine Arts 189—Advanced weaving. 3 or 4 points Winter Session. Miss HOUSE.

An advanced course in weaving. Weaving on two, four, and eight harness looms. Standard weaves: colonial, overshot, summer and winter, spot and lace Bronson, crackle, twills. Special weaves: laid-in, warp and weft brocades, open weaves, tapestries, pilesweaves including looped and tufted types, double weaving and Scandinavian techniques. Making of patterns and drafts, analysis of fabrics, including draft treading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and various other institutions.

O. T. Fine Arts 105—Interpretive design. 2 points Winter Session. Miss KNAPP.

Basic and related problems providing experience with various mediums of expression as used in occupational therapy, with stress upon valid design concepts.

O. T. Fine Arts 26—Leather. 1 point Spring Session. Miss KNAPP.

Various processes and techniques of leather work as used in occupational therapy. Instruction in making a wide variety of articles including handbags, belts, gloves, and other accessories.

O. T. Fine Arts 168—General shop. 2 points Spring Session. Professor STRICKLER.

A course in mechanical drawing, art and metal, chip carving, plastics, general hand and power machine woodwork, and such other media as may be required to round out the shop experience of advanced occupational therapy students.

There will be a charge for materials.

O. T. Clothing 10—Garment construction. 1 point Spring Session. Instructor to be announced.

An elementary course in clothing construction as applied to occupational therapy. Includes principles of clothing and design; pattern selection and altering; use and care of sewing machine and equipment. Principles of upholstery and slip covers and draperies.

Students provide materials.

O. T. Graphic Arts 1R—Art of hand printing. 1 or 2 points Winter Session. Messrs. LOOS and MUELLER.

The fundamentals of printing and its application as therapeutic exercise for handicapped persons. The lectures, which are supplemented by films, demonstrations, and trips, include: (a) Type faces: history, sizes, point system, methods of hand and machine composition, makeup into pages, fitting of copy; (b) Proofreading; (c) Presswork; a visit to a printing plant affords the student an opportunity to see in actual operation the methods of linotype composition, imposition, makeready, and binding. The laboratory affords practical application of hand typesetting, including operation of hand and foot printing presses. Stress is placed on arrangement and good taste in handling various sizes of type.

O. T. Industrial Arts 103—Machine shop practice. 2 points Winter Session. Instructor to be announced.

An orientation course to familiarize the student with the mechanical skills used therapeutically in pretechnical activities: auto mechanics, dye-cutting, metal lathe, principles of forging, radio assembly and repair, electrical wiring, etc.

ACADEMIC CALENDAR

1945-1946

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| June | 29 | Friday. Registration in Summer Session begins. |
| July | 2 | Monday. Forty-sixth Summer Session begins. |
| August | 1 | Wednesday. Last day for filing application for special examinations. The privilege of later application may be granted on payment of a fee of \$3. |
| August | 10 | Friday. Forty-sixth Summer Session ends. |
| September | 17 | Monday. Examinations for deficient and debarred students begin. |
| September | 20 | Thursday, to September 26, Wednesday. Registration period for University Extension students desiring credit. |
| September | 24 | Monday, to September 26, Wednesday. Registration period for students in Physical Therapy and Occupational Therapy courses. |
| September | 26 | Wednesday. Opening exercises, 192d year. |
| September | 27 | Thursday. Classes begin for the Winter Session. |
| October | 6 | Saturday. Last day for change of program in the Winter Session for students in Physical Therapy and Occupational Therapy courses. |
| October | 12 | Friday. Columbus Day. Not a University holiday. |
| November | 6 | Tuesday. Election Day. Holiday. |
| November | 15 | Thursday. Midterm date, Winter Session. |
| November | 20 | Tuesday. Annual Thanksgiving Service in St. Paul's Chapel. |
| November | 22 | Thursday. Thanksgiving Day. Holiday. |
| December | 24 | Monday, to |

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| January | 6 | Sunday, inclusive. Christmas holidays. |
| January | 20 | Sunday. Annual Commemoration Service in St. Paul's Chapel. |
| January | 21 | Monday. Midyear examinations begin. |
| January | 31 | Thursday, to February 2, Saturday. Registration period for students in Physical Therapy and Occupational Therapy courses. |
| February | 4 | Monday. Classes begin for the Spring Session. |
| February | 9 | Saturday. Last day for a change of program in the Spring Session for students in Physical Therapy and Occupational Therapy courses. |
| February | 12 | Tuesday. Alumni Day. Not a University holiday. |
| February | 22 | Friday. Washington's Birthday. Holiday. |

1946

March	11	Monday. Last day for filing application for special examinations. The privilege of later application may be granted on payment of a fee of \$3.
March	23	Saturday. Midterm date, Spring Session.
April	14	Sunday, to April 21, Sunday, inclusive. Easter holidays.
April	15	Monday. Last day for filing application for the Certificates in Occupational Therapy and Physical Therapy. The privilege of later application may be granted on payment of a late fee.
May	20	Monday, to May 25, Saturday, inclusive. Final examinations.
May	30	Thursday. Memorial Day. Not a University holiday.
June	2	Sunday. Baccalaureate Service.
June	4	Tuesday. Conferring of degrees.
July	5	Friday. Registration in Summer Session begins.
July	8	Monday. Forty-seventh Summer Session begins.
August	16	Friday. Forty-seventh Summer Session ends.

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